

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A vacuum suction system, comprising  
a vacuum leak generation part,  
a vacuum generation mechanism connected to the vacuum leak generation part, and  
a vacuum level adjustment mechanism connected to the vacuum leak generation part,  
including a negative pressure sensor to detect a vacuum level of the vacuum leak generation part, and an adjustment part to adjust the vacuum level of the vacuum leak generation part based on a signal from the negative pressure sensor,  
wherein the vacuum leak generation part includes a table base disposed on a side of the vacuum generation mechanism, a vacuum suction channel, a conveyor table rotatably mounted on the table base, and a plurality of work receiving openings for receiving works,  
each work receiving opening being disposed inwardly or outwardly relative to the vacuum suction channel,  
each work receiving opening being connected to the vacuum suction channel, channel  
through a minute sectional suction channel provided on the conveyor table, the sectional  
each of the minute sectional suction channels has an axis extending in a direction that  
is orthogonal to an axis of the corresponding work receiving opening, and having a cross-  
sectional area of the minute sectional channel being that is smaller than that of the vacuum  
suction channel,

the negative pressure sensor detecting the vacuum level of the work receiving openings of the conveyor table, and

the adjustment part adjusting the vacuum level of the work receiving openings,

wherein the vacuum level adjustment mechanism includes a compressed air generation source for generating a compressed air,

wherein the adjustment part is adapted to jet out the compressed air from the compressed air generation source to the vacuum leak generation part based on the signal from the negative pressure sensor, and

wherein the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum-level negative pressure, and stops the compressed air when the vacuum level falls below a minimum-level negative pressure,

the maximum-level negative pressure being determined by an increased work load rate, and the minimum-level negative pressure being determined by a decreased work load rate,

wherein the maximum negative pressure is a lower absolute pressure than the minimum negative pressure.

2-6. (Cancelled)

7. (Currently Amended) A method of controlling a vacuum suction system, comprising

a vacuum leak generation part,  
a vacuum generation mechanism connected to the vacuum leak generation part, and  
a vacuum level adjustment mechanism connected to the vacuum leak generation part  
for adjusting a vacuum level of the vacuum leakage generation part, and including a negative  
pressure sensor to detect the vacuum level of the vacuum leak generation part, a compressed  
air generation source, and an adjustment part,

wherein the vacuum leak generation part includes a table base disposed on a side of  
the vacuum generation mechanism, a vacuum suction channel, a conveyor table rotatably  
mounted on the table base, and a plurality of work receiving openings for receiving works,

each work receiving opening being disposed inwardly or outwardly relative to the  
vacuum suction channel,

each work receiving section being connected to the vacuum suction channel through a  
minute sectional suction channel provided on the conveyor table, ~~the sectional~~

each of the minute sectional suction channels has an axis extending in a direction that  
is orthogonal to an axis of the corresponding work receiving opening, and having a cross-  
sectional area of the minute sectional channel being that is smaller than that of the vacuum  
suction channel,

the negative pressure sensor detecting the vacuum level of the work receiving  
openings of the conveyor table, and

the adjustment part adjusting the vacuum level of the work receiving openings,  
the method comprising the steps of:  
generating a vacuum in the vacuum leakage generation part by the vacuum generation  
mechanism,  
detecting the vacuum level of the vacuum leak generation part by the negative  
pressure sensor of the vacuum level adjustment mechanism, and  
jetting out a compressed air from the compressed air generation source to the vacuum  
leak generation part by the adjustment part of the vacuum level adjustment mechanism based  
on a signal from the negative pressure sensor,  
wherein the adjustment part jets out the compressed air based on the signal from the  
negative pressure sensor when the vacuum level rises above a maximum-level negative  
pressure, and stops the compressed air when the vacuum level falls below a minimum-level  
negative pressure,  
the maximum-level negative pressure being determined by an increased work load  
rate, and the minimum-level negative pressure being determined by a decreased work load  
rate, wherein the maximum negative pressure is a lower absolute pressure than the minimum  
negative pressure.

8. (Cancelled)

9. (Currently Amended) A method of controlling a vacuum suction system according to the method of claim 7, wherein,

the adjustment part jets out the compressed air intermittently based on the signal from the negative pressure sensor when the vacuum level rises above the maximum-level negative pressure.

10. (Currently Amended) A vacuum suction system according to claim 1, wherein the vacuum level of the work receiving openings is securely stabilized by an operation of the adjustment part regardless of the work load rate of the work receiving openings, the increased work load rate, or the increased decreased work load rate.

11. (Previously Presented) A vacuum suction system according to claim 1, wherein the minute sectional suction channel provides a pressure resistance.

12. (Currently Amended) A method of controlling a vacuum suction system according to the method of claim 7, wherein the vacuum level of the work receiving openings is securely stabilized by an operation of the adjustment part regardless of the work load rate of the work receiving openings, the increased work load rate, or the increased decreased work load rate.

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13. (Previously Presented) A method of controlling a vacuum suction system according to the method of claim 7, wherein the minute sectional suction channel provides a pressure resistance.